

UTILITY  
PATENT APPLICATION  
TRANSMITTAL

Our Docket No.: **169.12-0577**

Date: **October 27, 2003**

First Named Inventor: **Chunhong Hou**

Title: **BIASING FOR TRI-LAYER MAGNETORESISTIVE  
SENSORS**

Express Mail No.: **EV 302260275 US**

17548 U.S. PTO  
10/694483



102703

APPLICATION ELEMENTS

ADDRESS TO: **Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

1. ☒ Fee Calculation Sheet  
(Submit an original and a duplicate for fee processing)

2. ☐ Applicant claims small entity status

3. ☒ Specification Total Pages [21]

- Descriptive title of the invention
- Cross References to Related Applications
- Statement Regarding Fed. Sponsored R&D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claims
- Abstract of the Disclosure

4. ☒ Drawings (35 U.S.C. 113)

Total Sheets [7]  
Total Pages [4]

5. ☒ Oath or Declaration

- a. ☒ Newly Executed (original or copy)
- b. ☐ Copy from a prior application (37 C.F.R. 1.63(d) - for continuation/divisional with Box 18 completed)

[Mark Box 5 below]

I. ☐ DELETION OF INVENTOR(S)

Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b)

6. ☒ Application Data Sheet. See 37 CFR 1.76.

- 7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
- 8. Nucleotide and/or Amino Acid Sequence Submission (If applicable, all necessary)
  - a. ☐ Computer Readable Copy (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies; or
    - ii. ☐ Paper
  - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- 9. ☒ Assignment Papers (cover sheet & document(s))
- 10. ☒ 37 C.F.R. 3.73(b) Submission
- ☒ Power of Attorney
- 11. ☐ English Translation Document (if applicable)
- 12. ☒ Information Disclosure Statement with copies of Citations as necessary
- 13. ☐ Preliminary Amendment Total Pages [ ]
- 14. ☒ Return Receipt Postcard (Should be specifically itemized)
- 15. ☐ Certified Copy of Priority document(s) (If foreign priority is claimed)
- 16. ☐ Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Application must attach form PTO/SB/35 or its equivalent
- 17. ☐ Other

18. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Division

☐ Continuation-in-part (CIP) of prior Application No. \_\_\_\_\_

Prior Application Information: Examiner \_\_\_\_\_ Group Art Unit \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

ATTY NAME  
AND REG. NO.

**David R. Fairbairn,  
Reg. No. 26,047**

SIGNATURE:

ADDRESS

**Kinney & Lange, P.A.  
THE KINNEY & LANGE BUILDING  
312 South Third Street  
Minneapolis, MN 55415-1002**

TELEPHONE

**(612) 339-1863**

FAX: **(612) 339-6580**

# FEE TRANSMITTAL

Complete if Known

Application No.

Filing Date

First Named Inventor

Group Art Unit

Examiner Name

Atty. Docket Number

Herewith

Chunhong Hou

169.12-0577

Total Amount of Payment \$916.00

## METHOD OF PAYMENT (Check One)

1. ☒ The Commissioner is hereby authorized to charge any additional fee required under 37 C.F.R. 1.16 and 1.17 and credit any over payments to Deposit Account No. 11-0982. Deposit Account Name: Kinney & Lange, P.A. A duplicate copy of this communication is enclosed

2. ☒ Check Enclosed

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description
1001	750	2001	375	[750.00] Utility Filing Fee
1006	330	2006	165	<input type="checkbox"/> Design Filing Fee
1004	750	2004	375	<input type="checkbox"/> Reissue Filing Fee
1005	160	2005	80	<input type="checkbox"/> Prov. Filing Fee

Subtotal (1) \$750.00

### 2. EXTRA CLAIM FEES

	Number Claims	Prior**	Extra	Fee from Below	Fee Paid
Total	27	20	= 7	x 18	= 126.00
Indep.	3	3	= 0	x 0	= 0
Multiple Dependent Claims			*	= *	

\*\*Insert 3 and 20, or number previously paid if greater; Reissue see below

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Description
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple Dependent Claim
1204	84	2204	42	Reissue Independent Claims Over Original Patent
1205	18	2205	9	Reissue claims in excess of 20 and over original patent

Subtotal (2) \$126.00

## FEE CALCULATION (Continued)

### 3. ADDITIONAL FEES

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee paid
1051	130	2051	65	Surcharge - Late filing fee or oath	*
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	*
1053	130	1053	130	Non-English specification	*
1812	2,520	1812	2,520	For Filing a Request for Reexamination	*
1251	110	2251	55	Extension for reply within first month	*
1252	410	2252	205	Extension for reply within second month	*
1253	930	2253	465	Extension for reply within third month	*
1254	1,450	2254	725	Extension for reply within fourth month	*
1255	1,970	2255	985	Extension for reply within fifth month	*
1402	320	2402	160	Filing a brief in support of an appeal	*
1403	280	2403	140	Request for oral hearing	*
1814	110	2814	55	Terminal Disclaimer Fee	*
1452	110	2452	55	Petition to revive - unavoidable	*
1453	1,300	2453	650	Petition to revive - unintentional	*
1501	1,300	2501	650	Utility/Reissue issue fee	*
1502	470	2502	235	Design issue fee	*
1460	130	1460	130	Petitions to the Commissioner	*
1807	50	1807	50	Petitions related to provisional applications	*
1806	180	1806	180	Submission of Information Disclosure Statement	*
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40
1801	750	2801	375	Request for Continued Examination (RCE)	*
Other fee (specify) _____					*

Subtotal (3) \$40.00

Signature

David R. Fairbairn

Date

10/27/03

Reg. No.

26,047

Deposit Account No.

11-0982

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor : Chunhong Hou et al.	Batch No:
Appln. No. :	Allowed:
Filed : Herewith	Group Art Unit:
Title : BIASING FOR TRI-LAYER MAGNETORESISTIVE SENSORS	Examiner:
Docket No. : I69.12-0577	

**LETTER TO OFFICIAL DRAFTSMAN**

Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SENT VIA EXPRESS MAIL**  
Express Mail No.: EV 302260275 US

Sir:

Enclosed are seven (7) sheets of formal drawings for filing in the above-identified application.

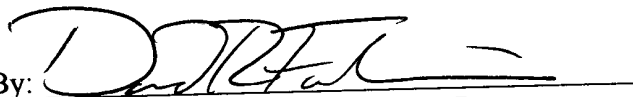
Respectfully submitted,

KINNEY & LANGE, P.A.

Date:

10/27/03

By:



David R. Fairbairn, Reg. No. 26,047  
THE KINNEY & LANGE BUILDING  
312 South Third Street  
Minneapolis, MN 55415-1002  
Telephone: (612) 339-1863  
Fax: (612) 339-6580

DRF:PGK:eav

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named

Inventor : Chunhong Hou

Appln. No. :

Filed : Herewith

Title : BIASING FOR TRI-LAYER  
MAGNETORESISTIVE SENSORS

Docket No. : I69.12-0577

Group Art Unit:

Examiner:

**EXPRESS MAIL COVER SHEET**

Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SENT VIA EXPRESS MAIL**  
Express Mail No.: EV 302260275 US

Sir:

The following papers are being transmitted via **EXPRESS MAIL** to the U.S. Patent and Trademark Office on the date shown below:

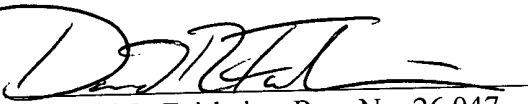
1. Checks in the amounts of \$876.00 and \$40.00;
2. Fee Transmittal (in duplicate);
3. Utility Transmittal;
4. Application (21 pages);
5. Letter to Official Draftsman and Drawings (7 sheets);
6. Declaration (4 pages);
7. Assignment Recordation Sheet and Assignment (3 pages);
8. Submission;
9. File Data Sheet;

10. Power of Attorney and Associate Power of Attorney; and
11. Information Disclosure Statement.

Respectfully submitted,

KINNEY & LANGE, P.A.

Date: 10/27/03

By   
David R. Fairbairn, Reg. No. 26,047  
THE KINNEY & LANGE BUILDING  
312 South Third Street  
Minneapolis, MN 55415-1002  
Telephone: (612) 339-1863  
Fax: (612) 339-6580